

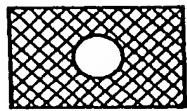
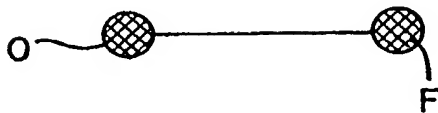
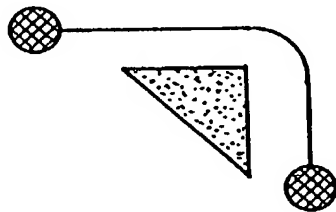
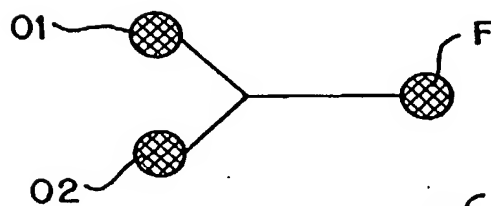
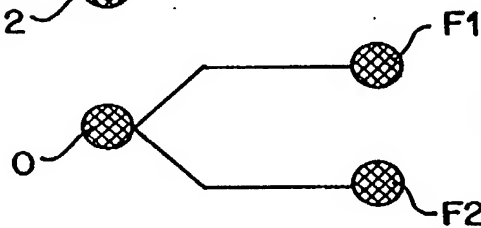
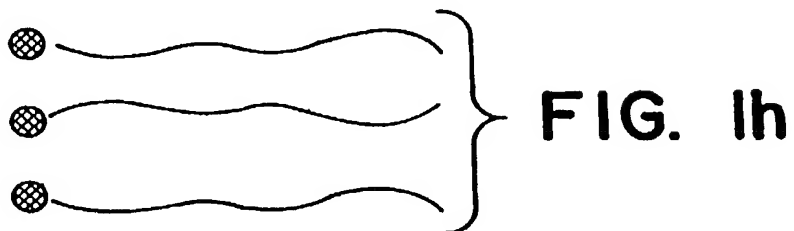
 **FIG. 1a****FIG. 1b****FIG. 1c****FIG. 1d****FIG. 1e****FIG. 1f****FIG. 1g****FIG. 1h**

FIG. 2A

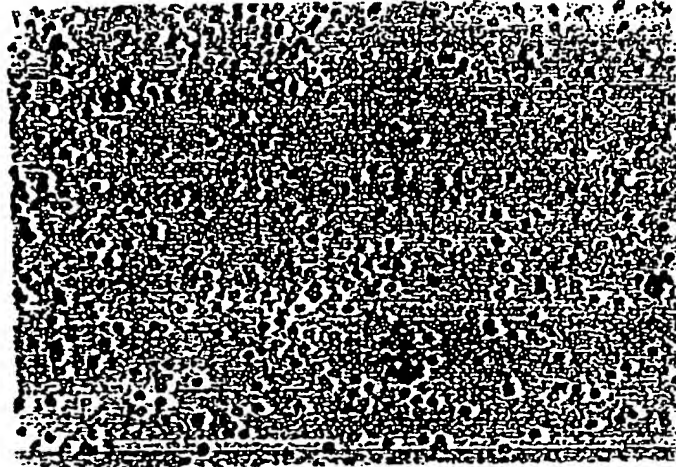
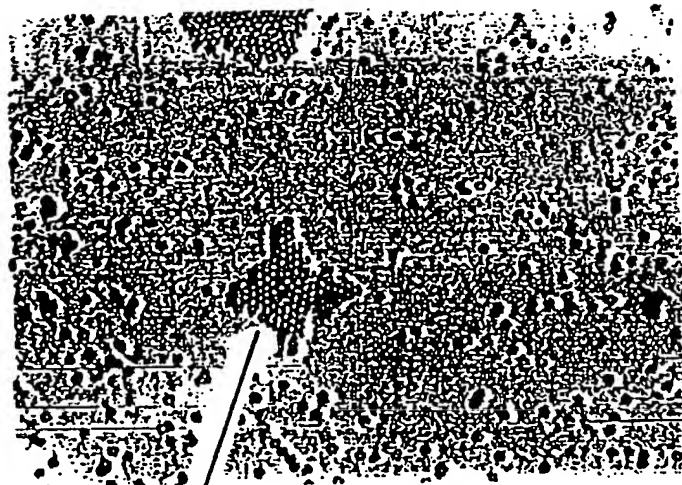


FIG. 2B



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FIG. 2C

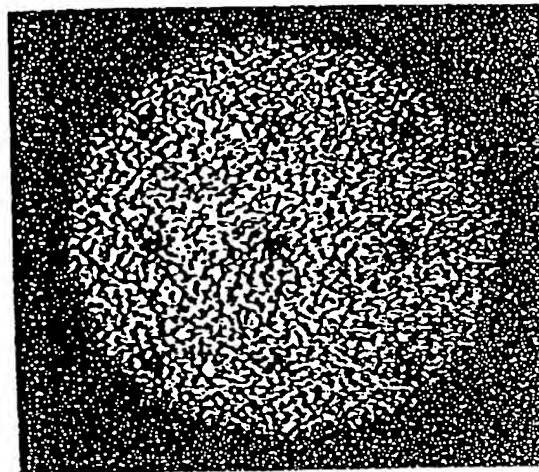
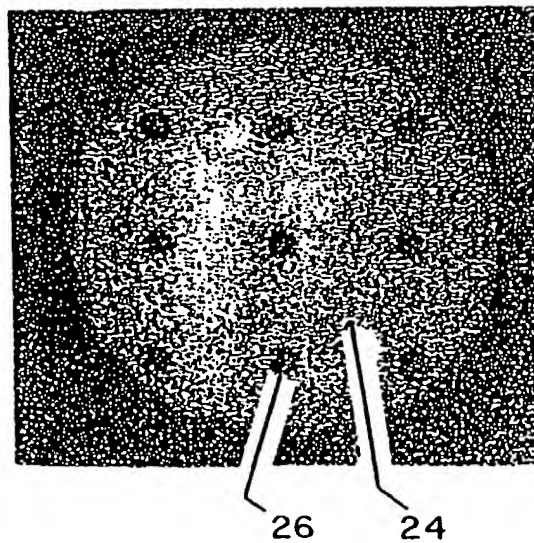


FIG. 2D



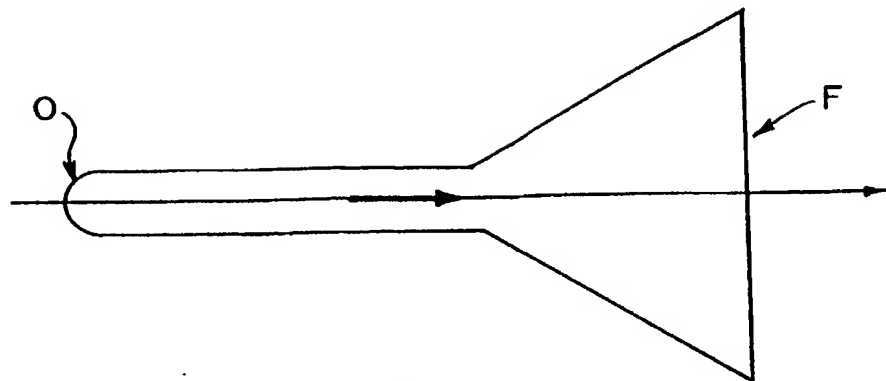


FIG. 3b

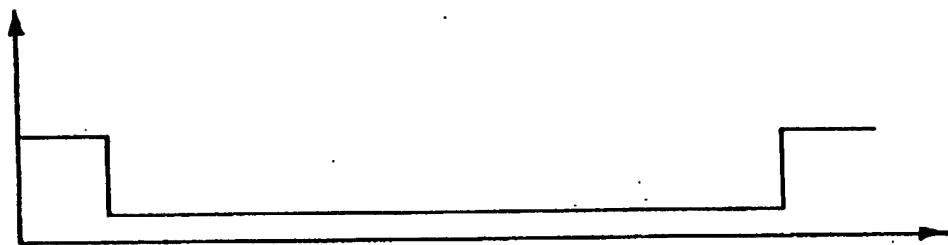


FIG. 3c

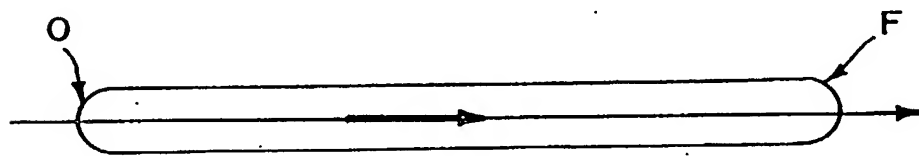


FIG. 3d



FIG. 3C

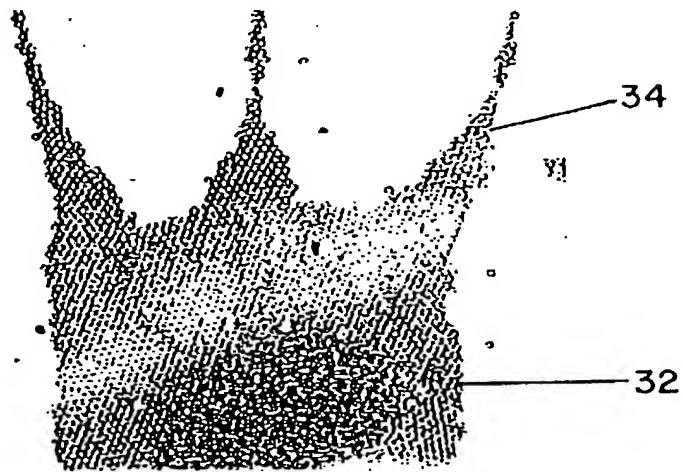


FIG. 3D

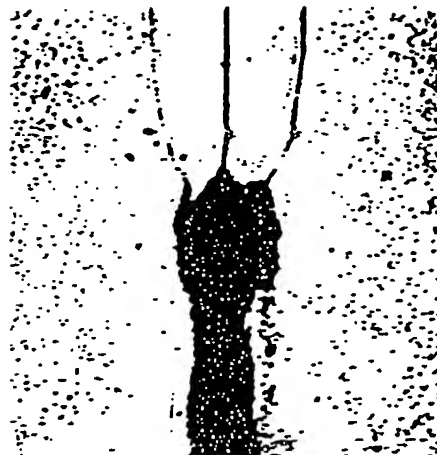


FIG. 4A

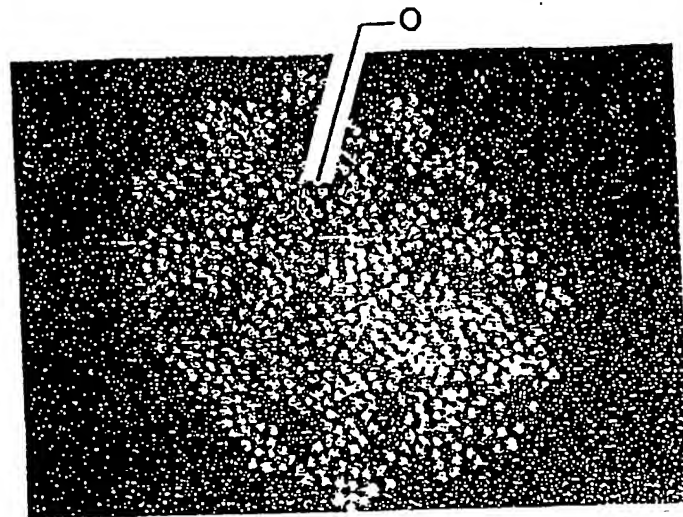


FIG. 4B

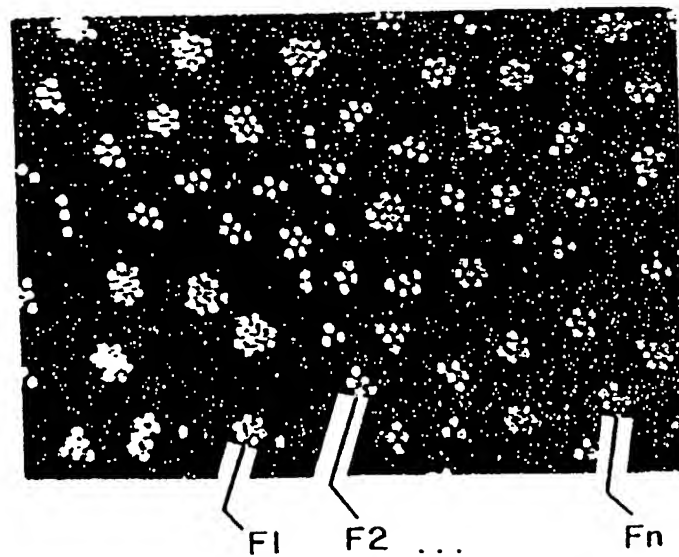


FIG. 5

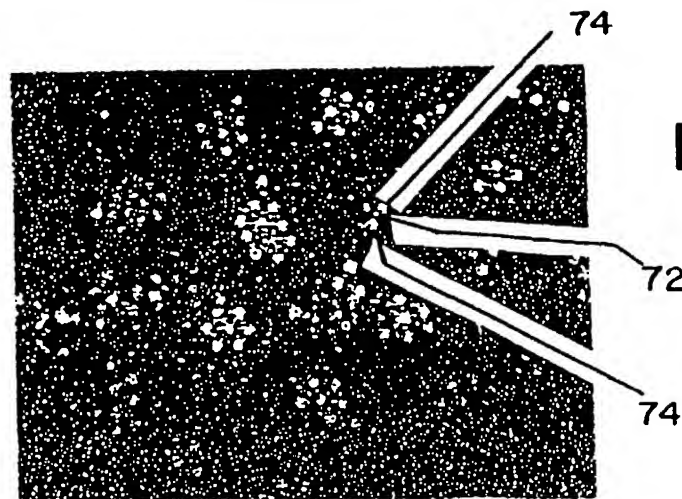
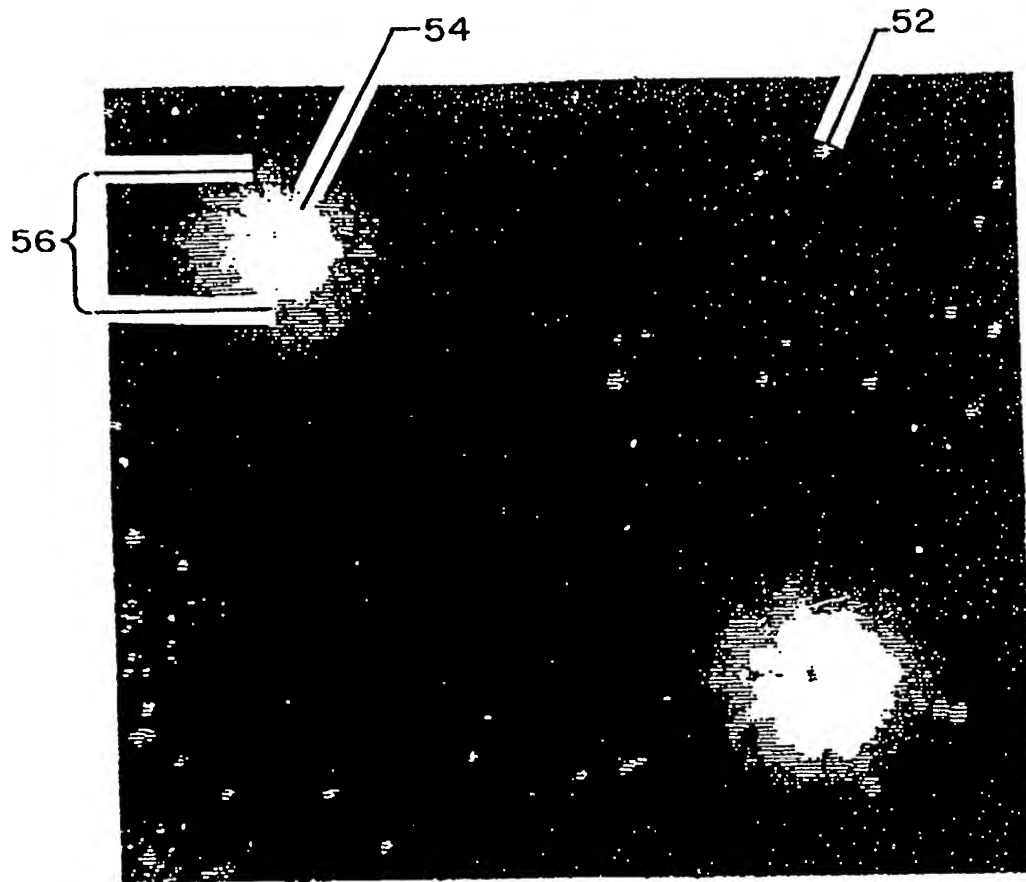


FIG. 7

FIG. 6a

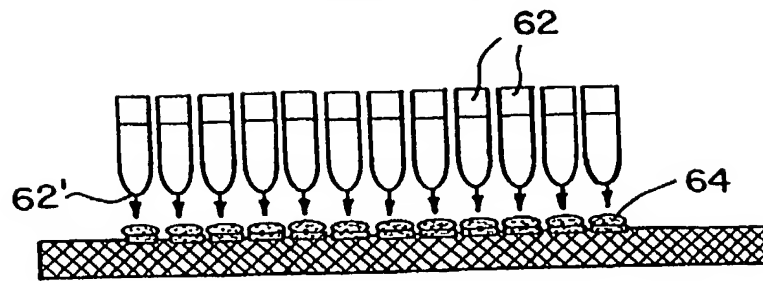


FIG. 6b

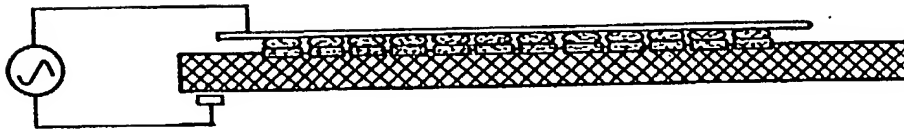


FIG. 6c

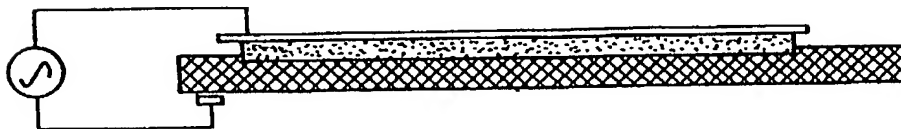


FIG. 8

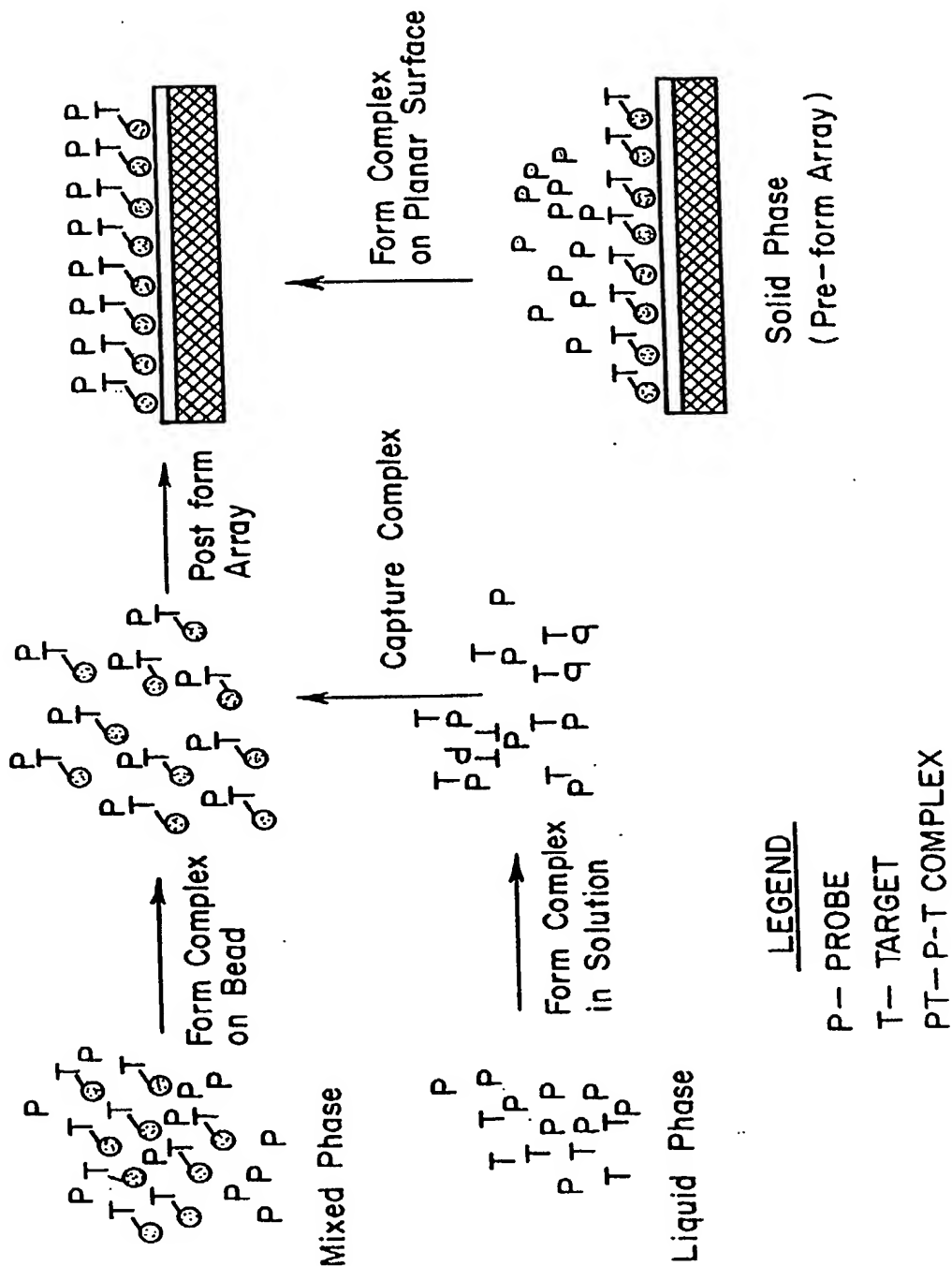


FIG. 9a

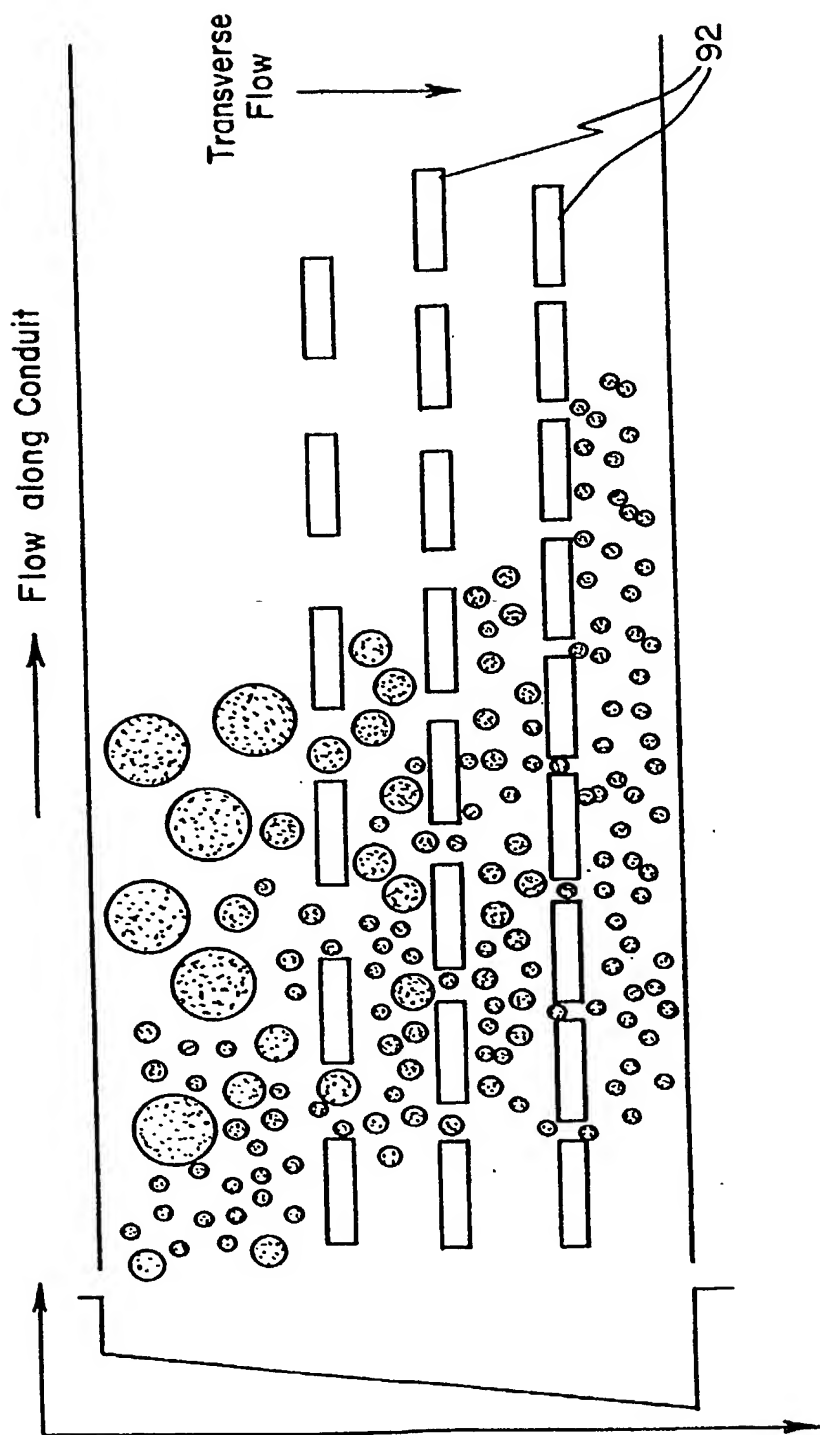


FIG. 9b

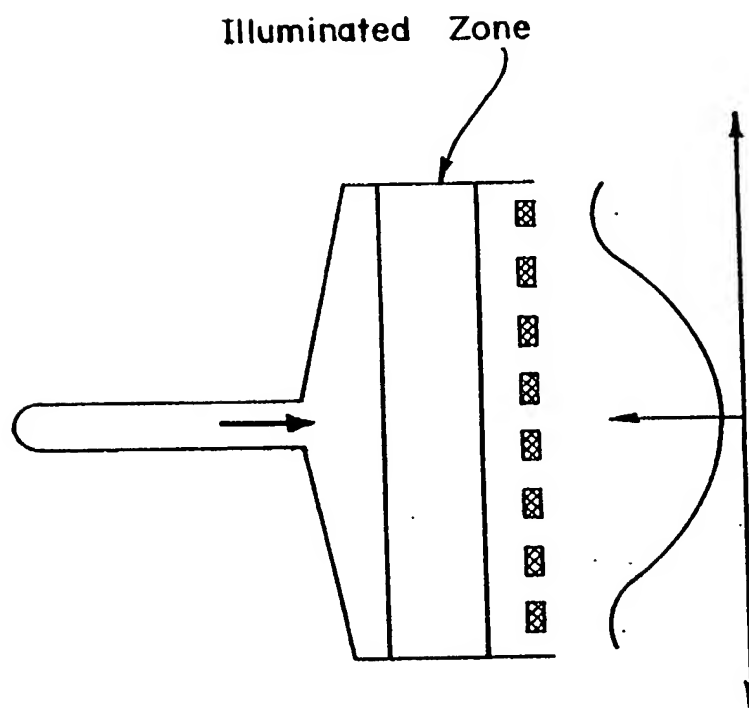


FIG. 9c



FIG. 10

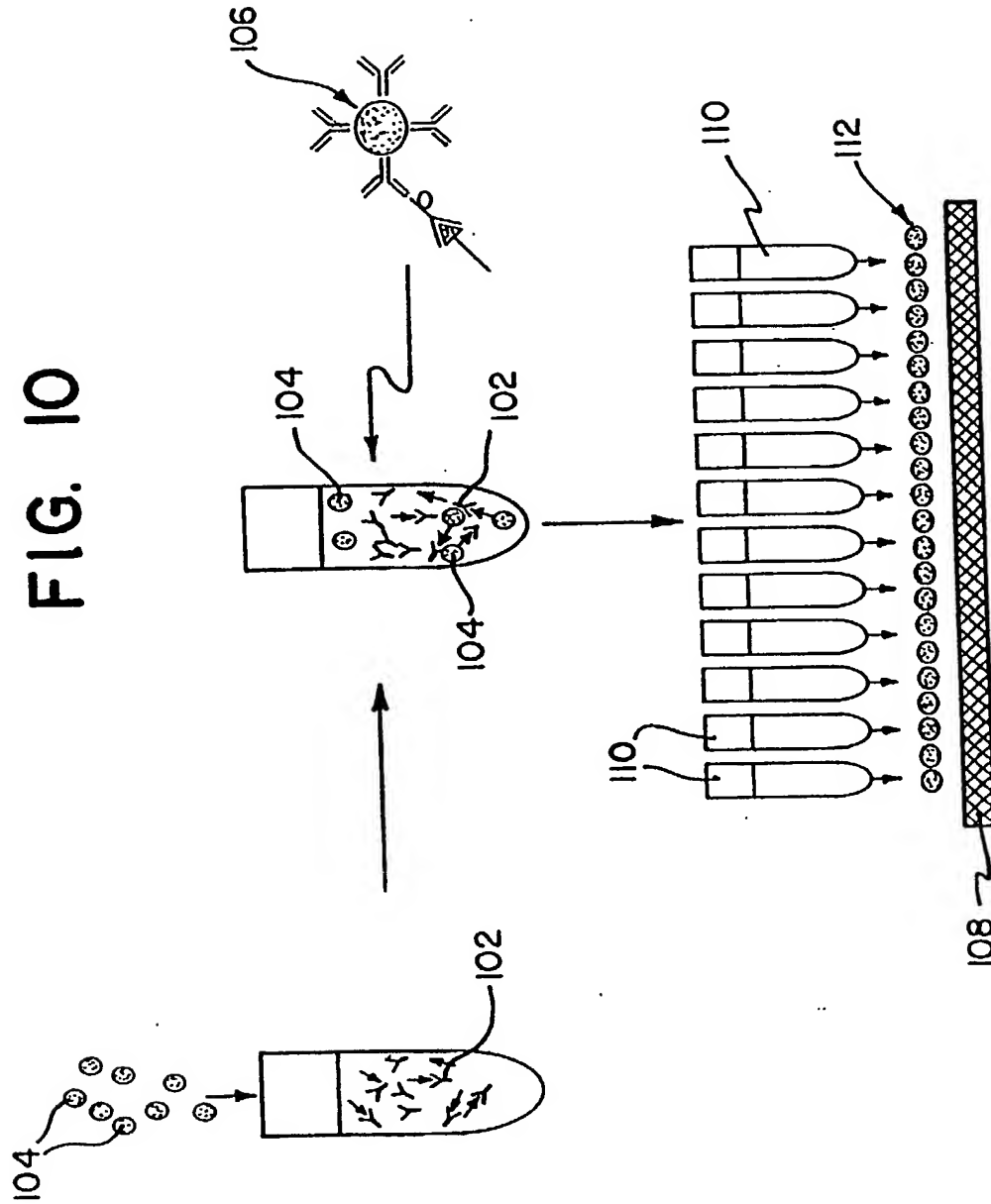


FIG. 11a

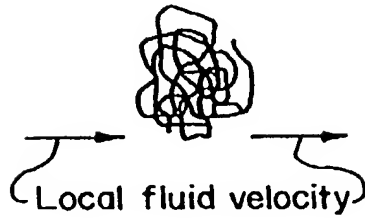


FIG. 11b

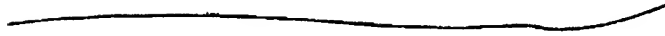


FIG. 11c

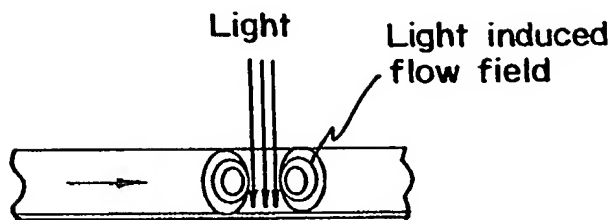


FIG. 11d

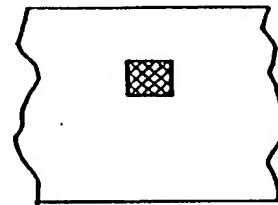
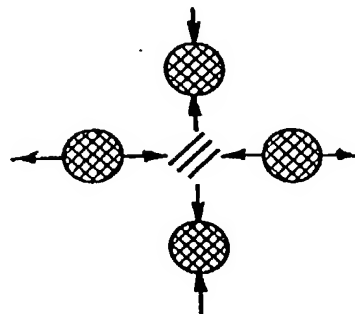


FIG. 11e



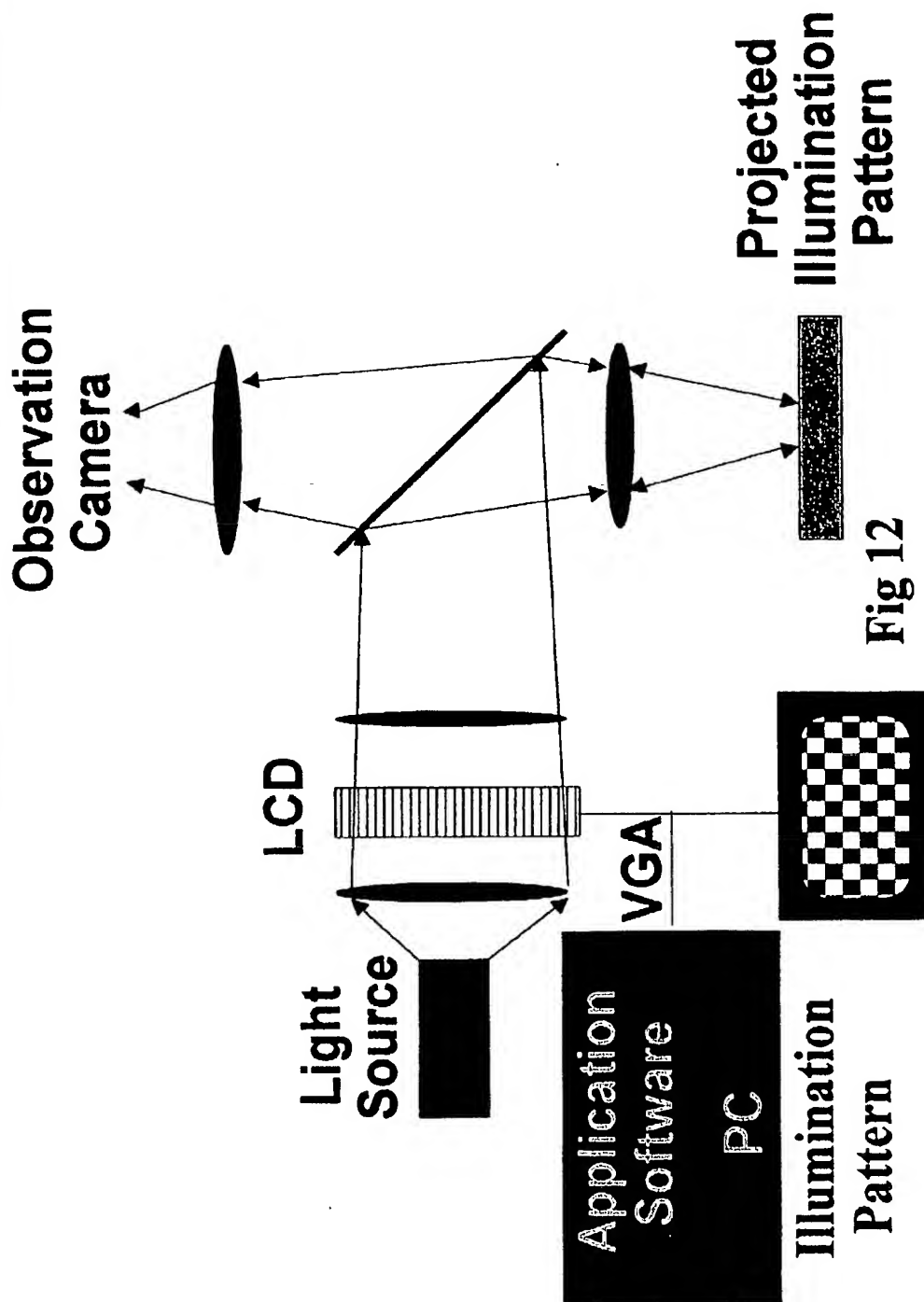
ILLUMINATION PATTERN GENERATOR

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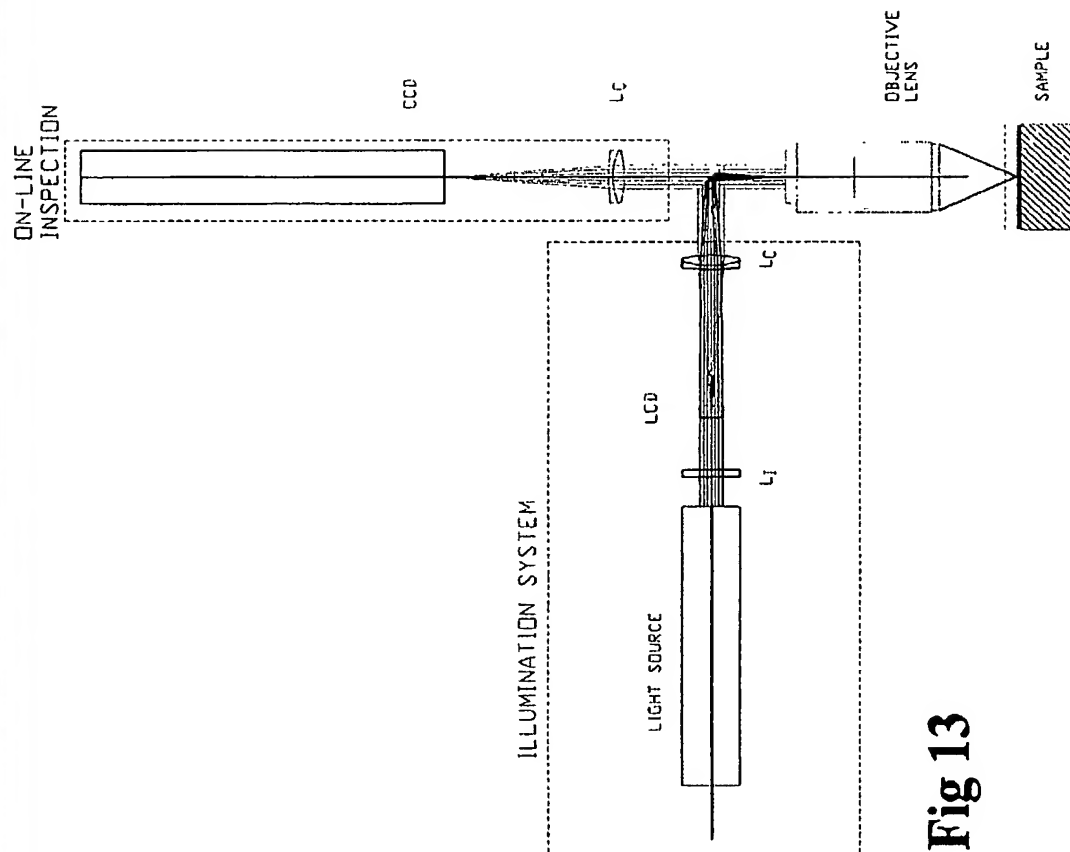


Fig 13

ARRAY SHAPE ADJUSTMENTS

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CIRCLE



Figure 14a

HORIZONTAL LINE

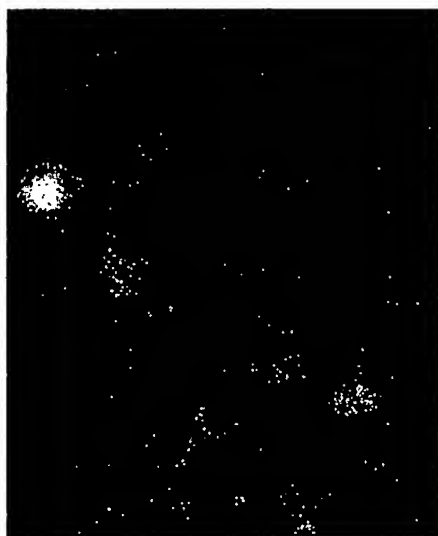


Figure 14c

VERTICAL LINE



Figure 14b

SQUARE

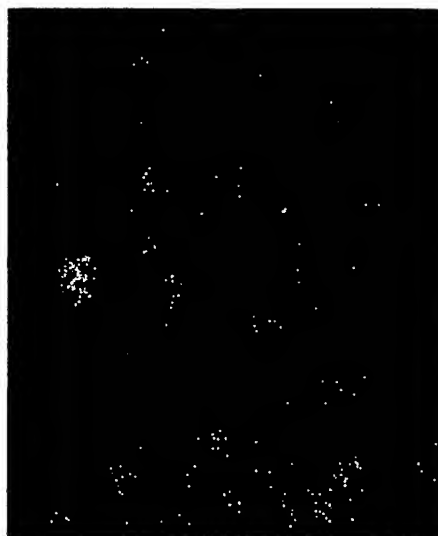


Figure 14d

COLLECTION AND ARRAY ASSEMBLY

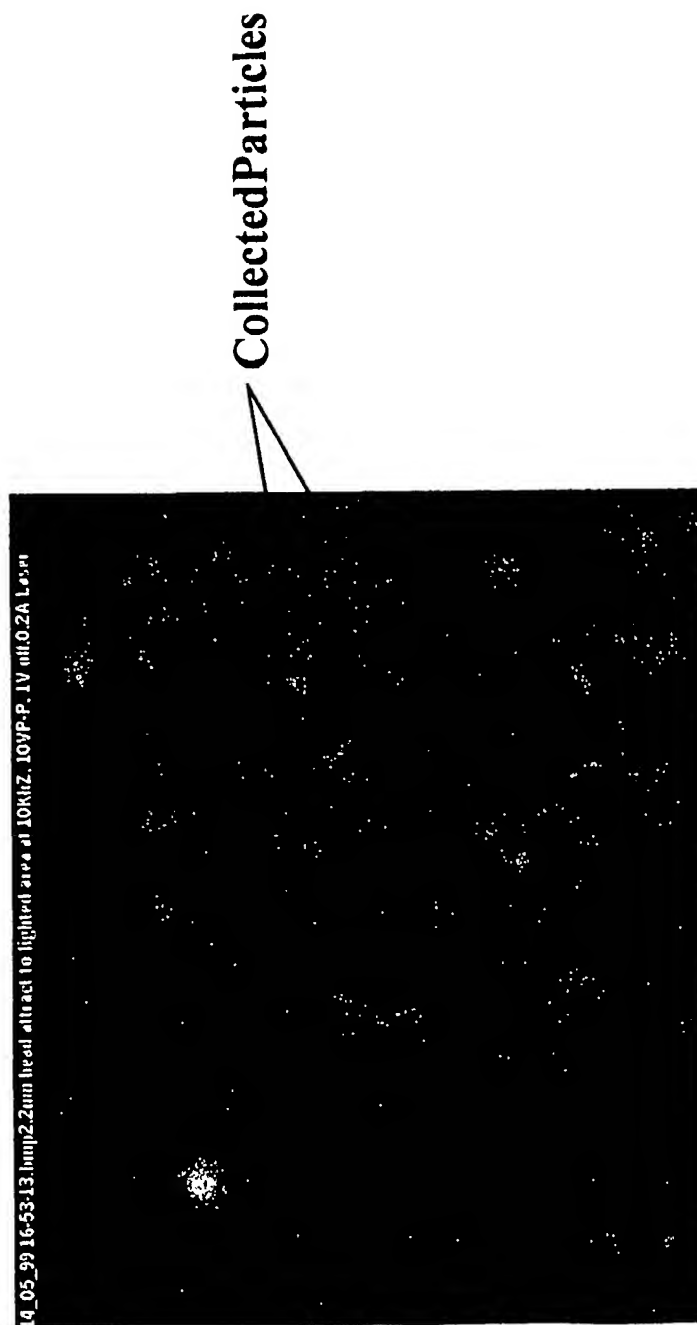


Figure 15a

EXPULSION AND CONFINEMENT

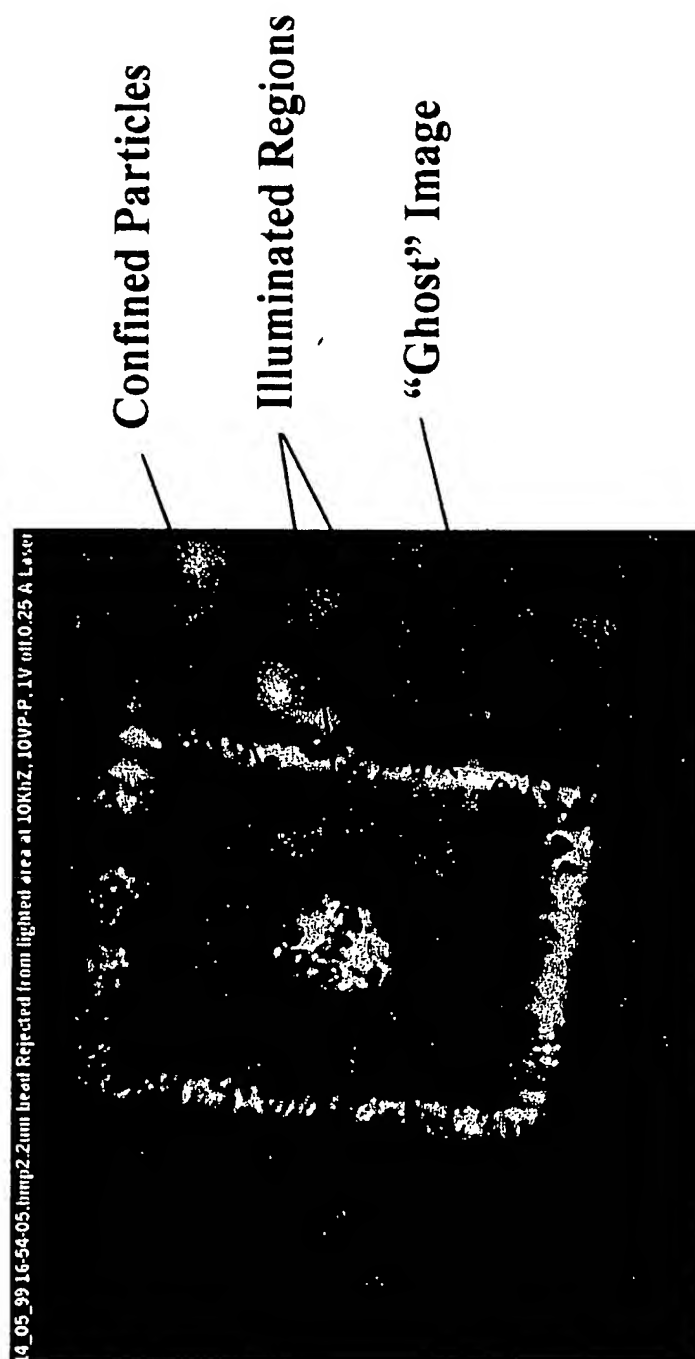


Figure 15b

DRAG AND DROP



Figure 16

Programmable Array Reconfiguration and Segmentation

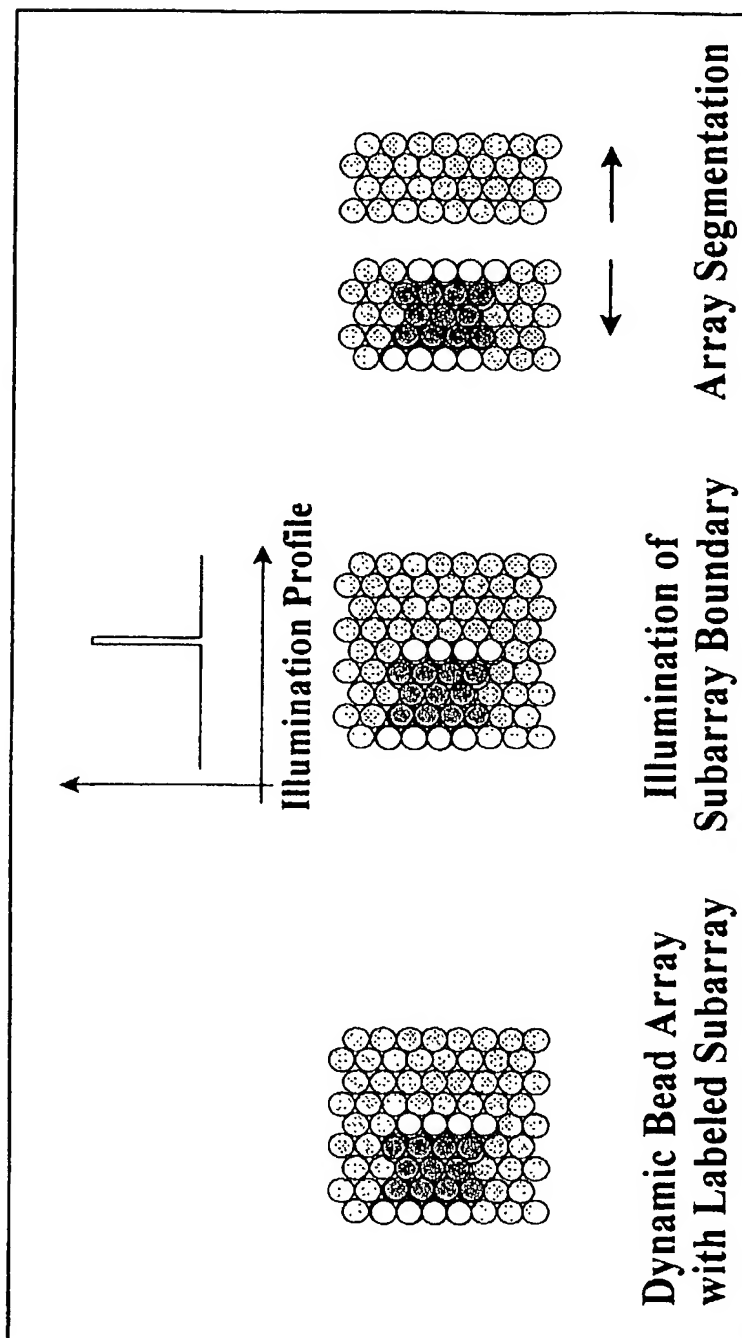


Figure 17

LCD PARSE

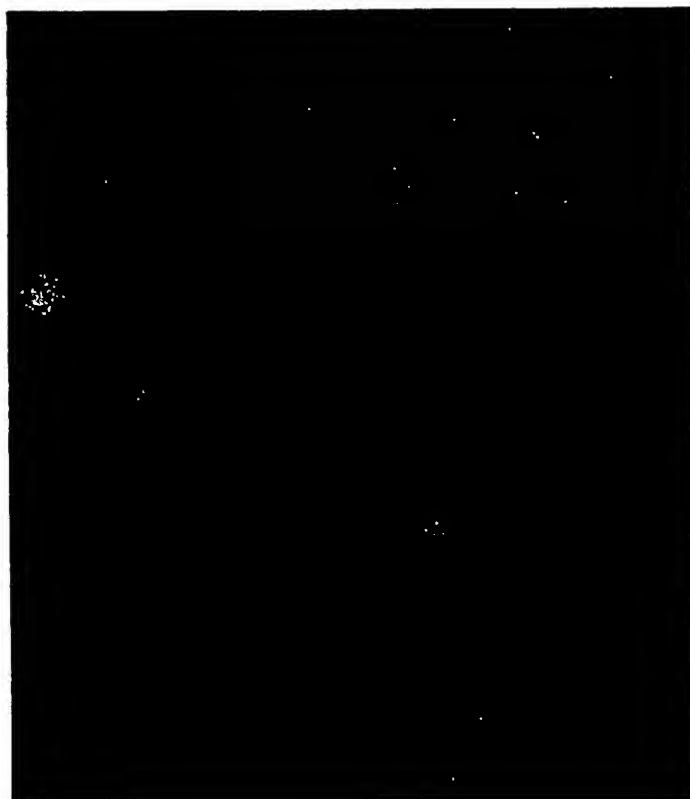


Figure 18a

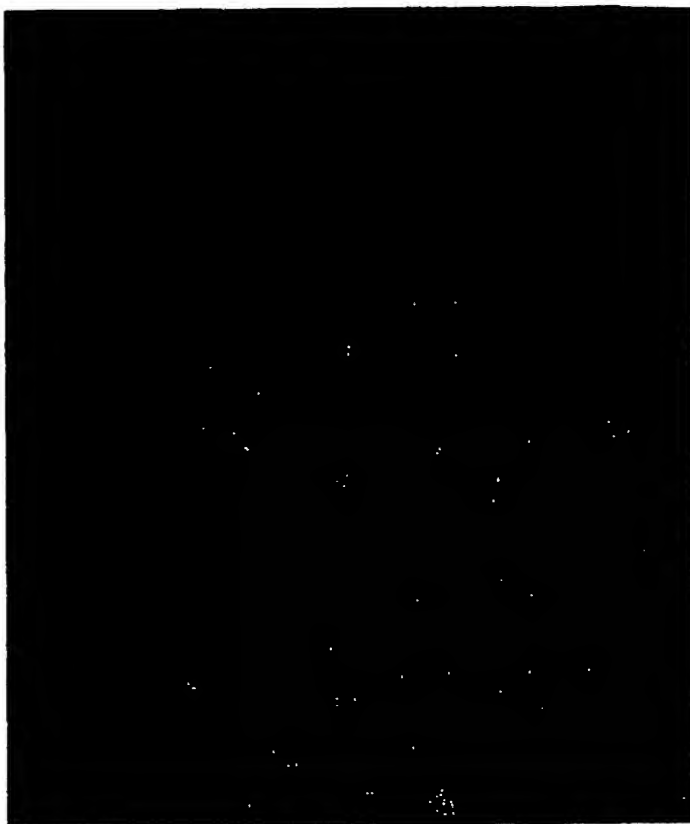


Figure 18b

LCD PARSE

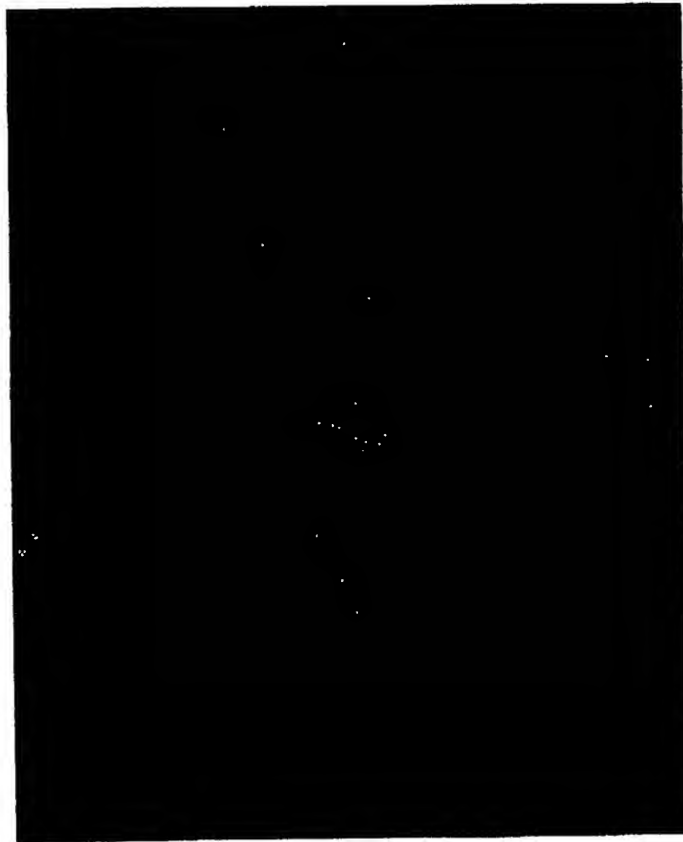
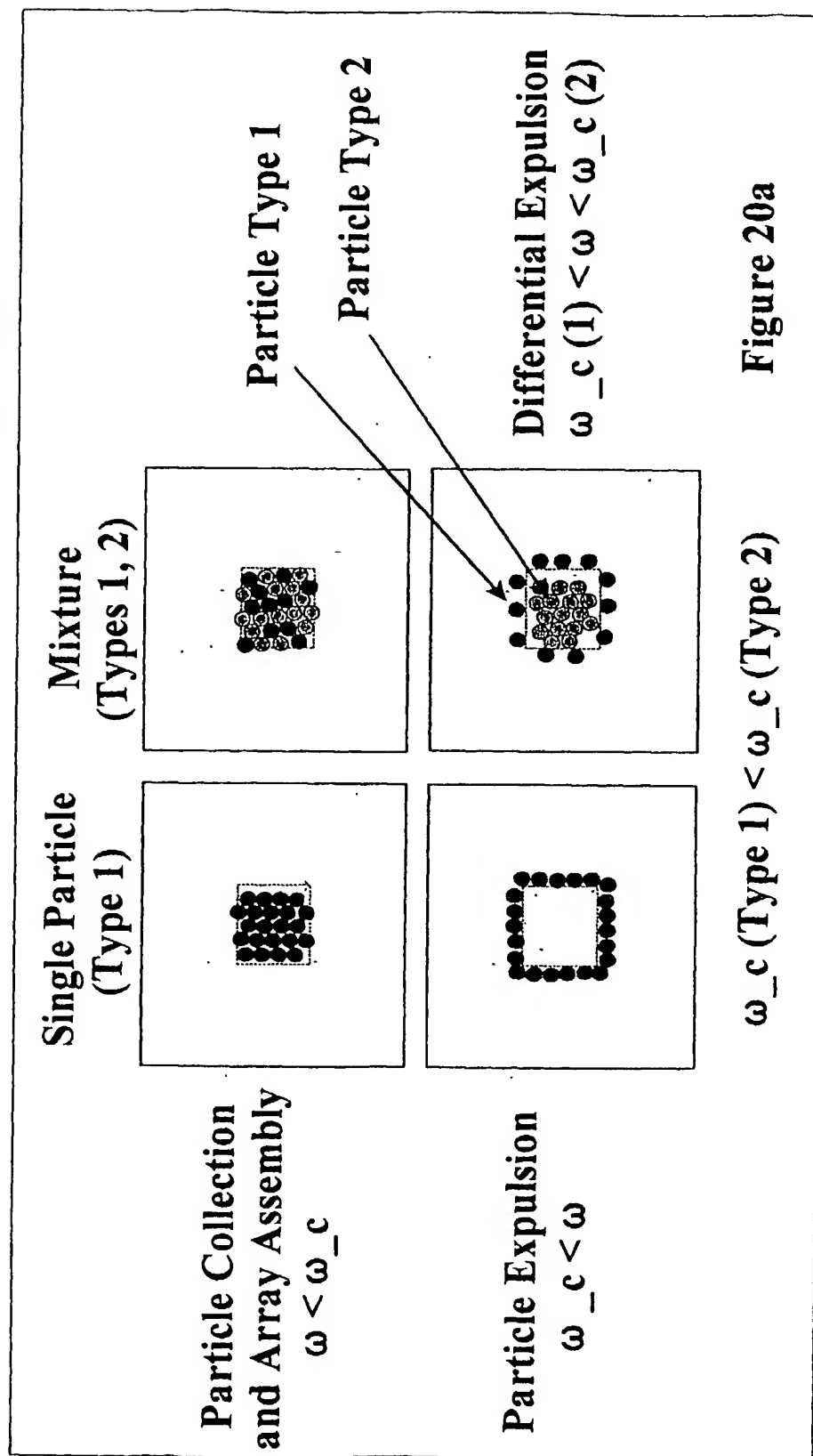


Figure 19

FRACTIONATION

Differential Frequency Dependence of Particle Expulsion
(NOTE: ω_c denotes a characteristic frequency)



FRACTIONATION

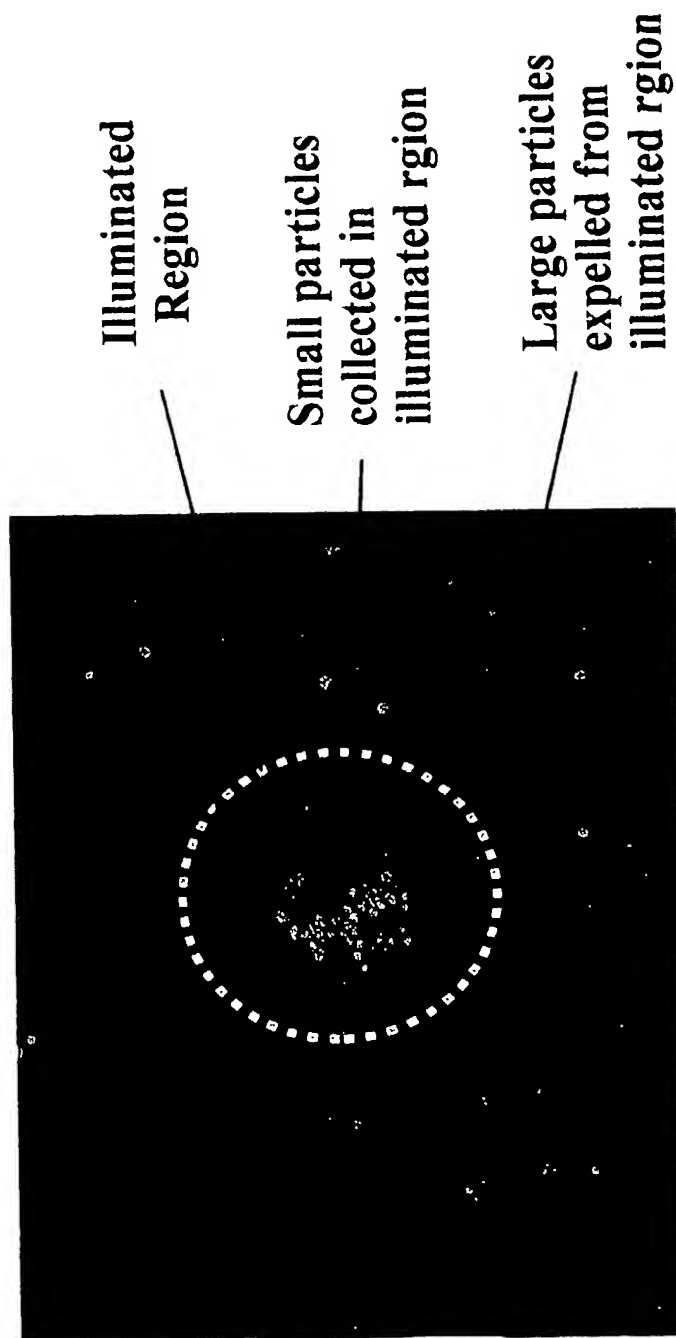


Figure 20b

LCD PARSE

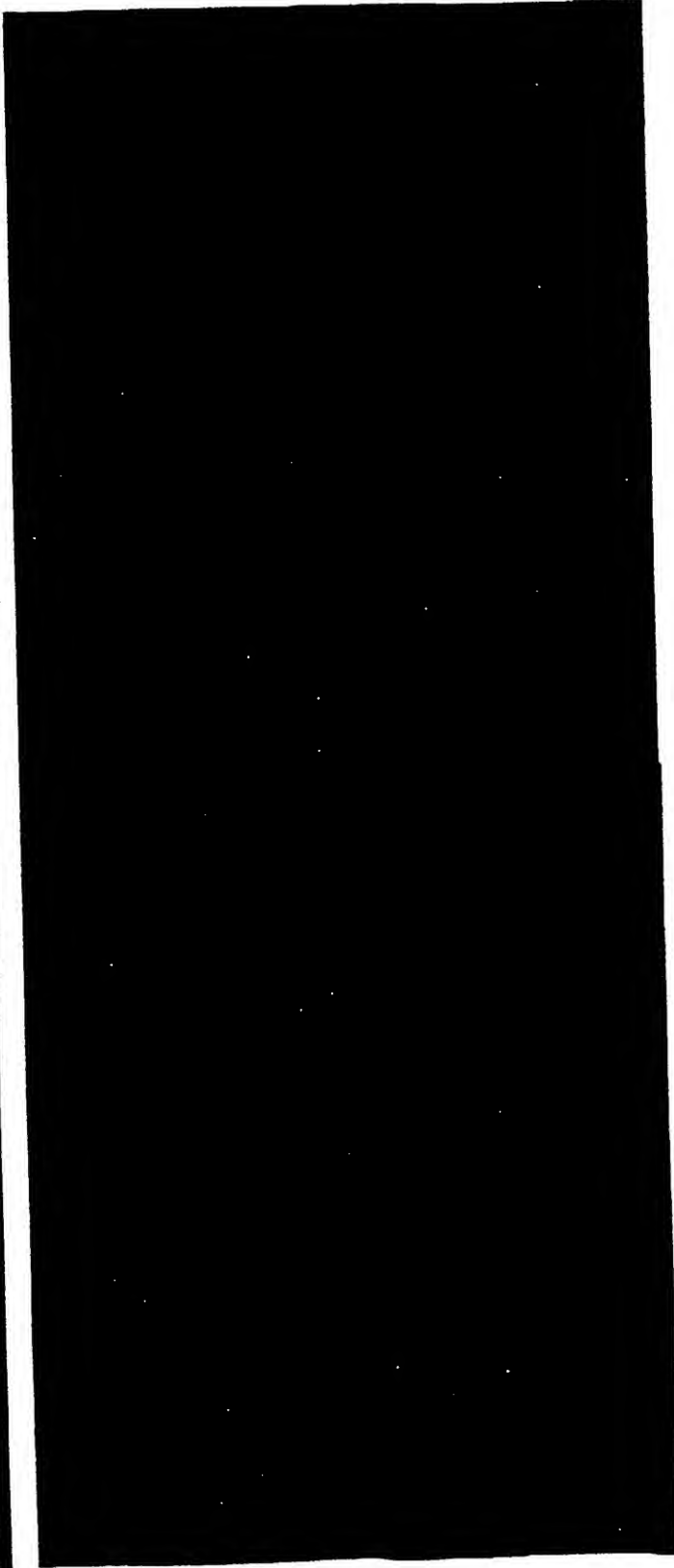
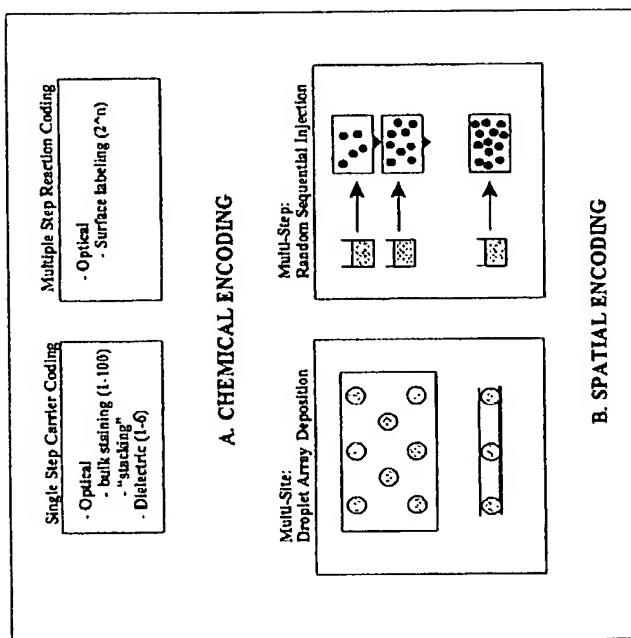
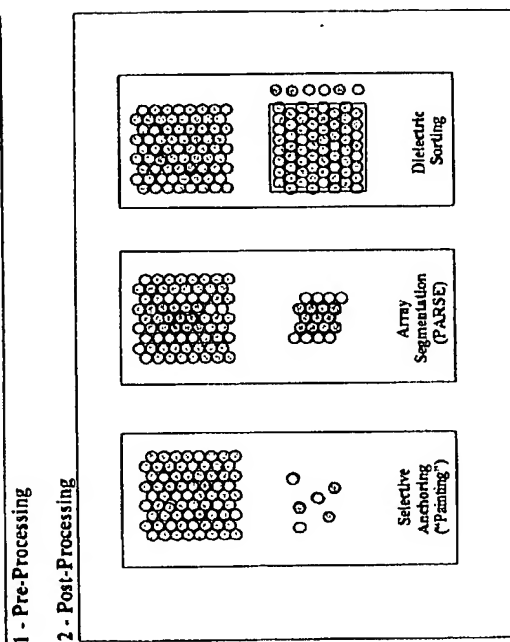


Figure 21b

Figure 21a

Encoding Methodologies**Figure 22a****Figure 22b**

RANDOM SEQUENTIAL INJECTION

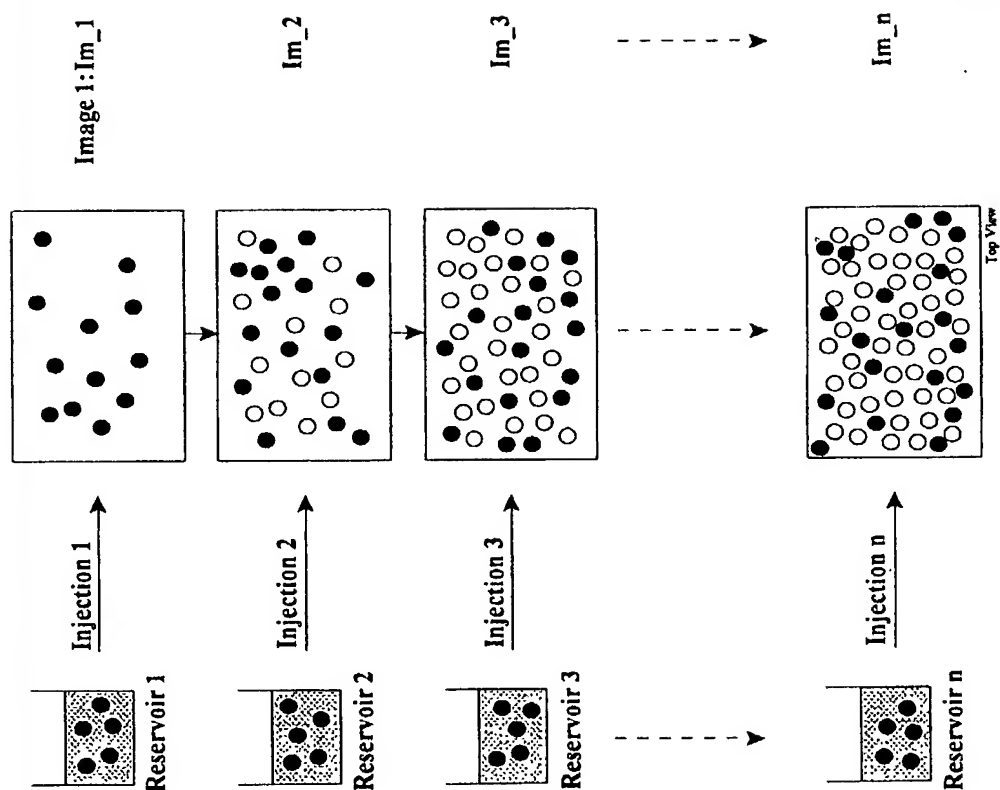


Figure 23

SEQUENTIAL INJECTION & LIGHT-CONTROLLED ARRAY PLACEMENT

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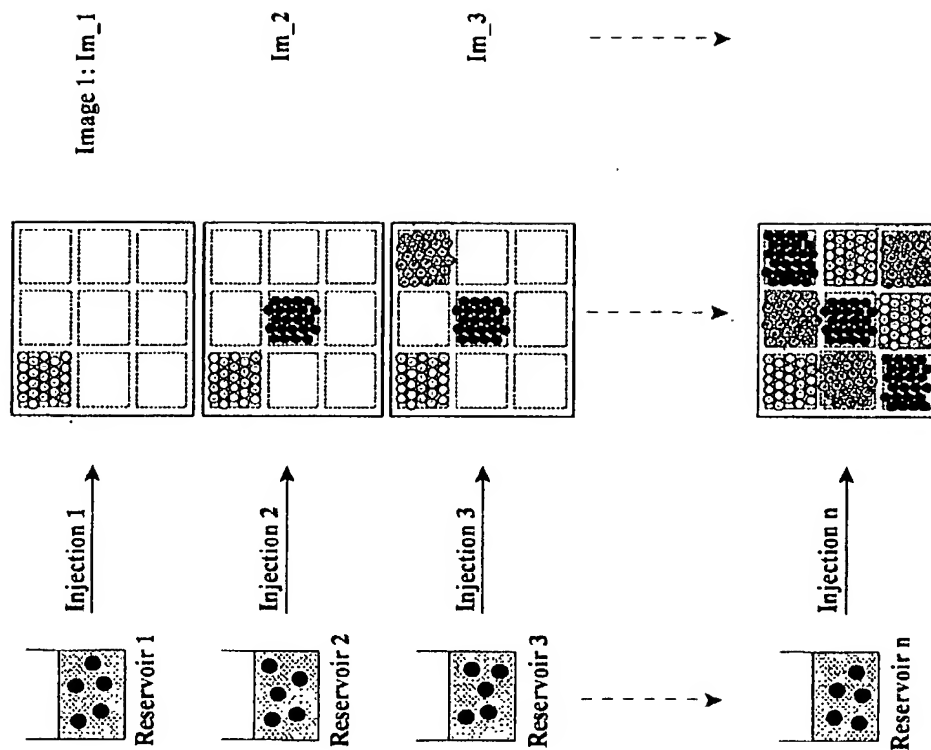


Figure 24

MACRO-TO-MICRO TRANSITION

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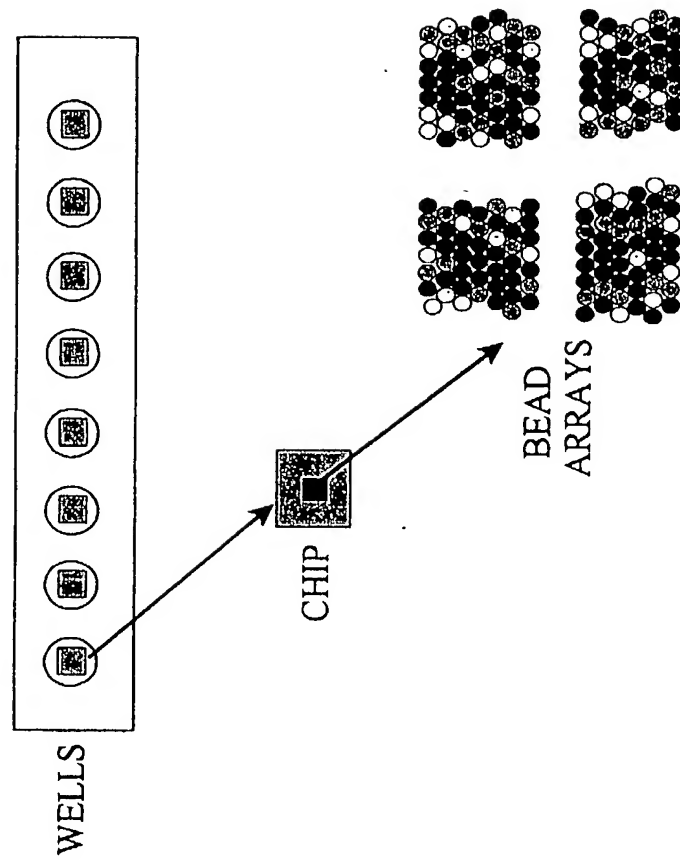


Figure 25a

ARRAY ENCODING

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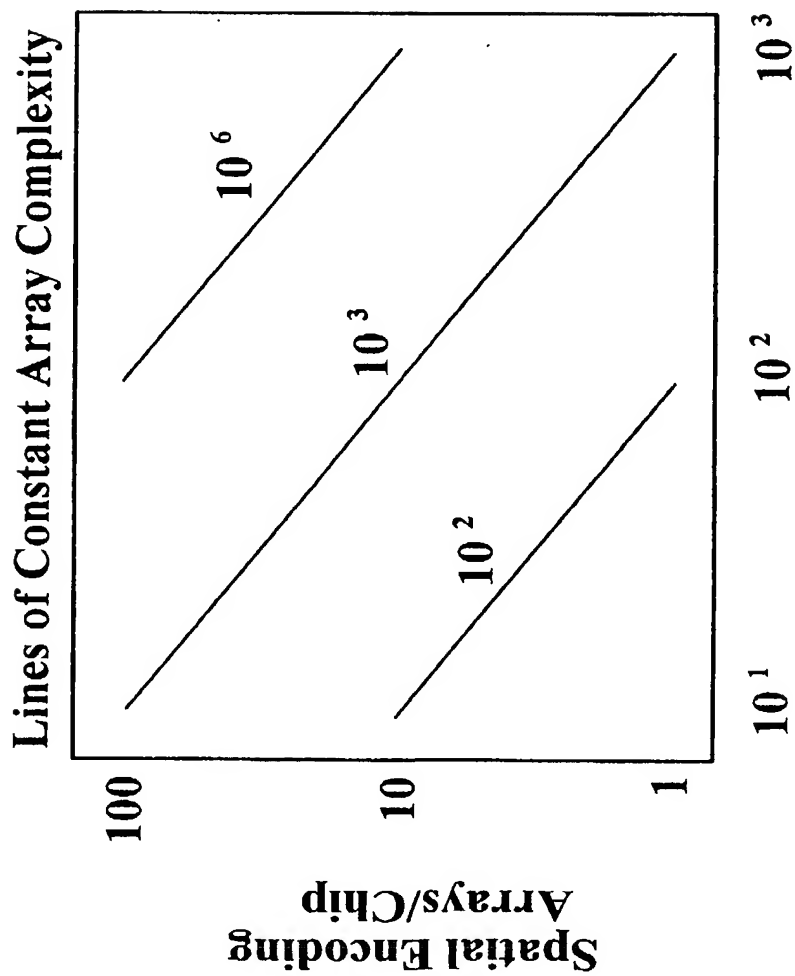


Figure 25b

ARRAY ENCODING

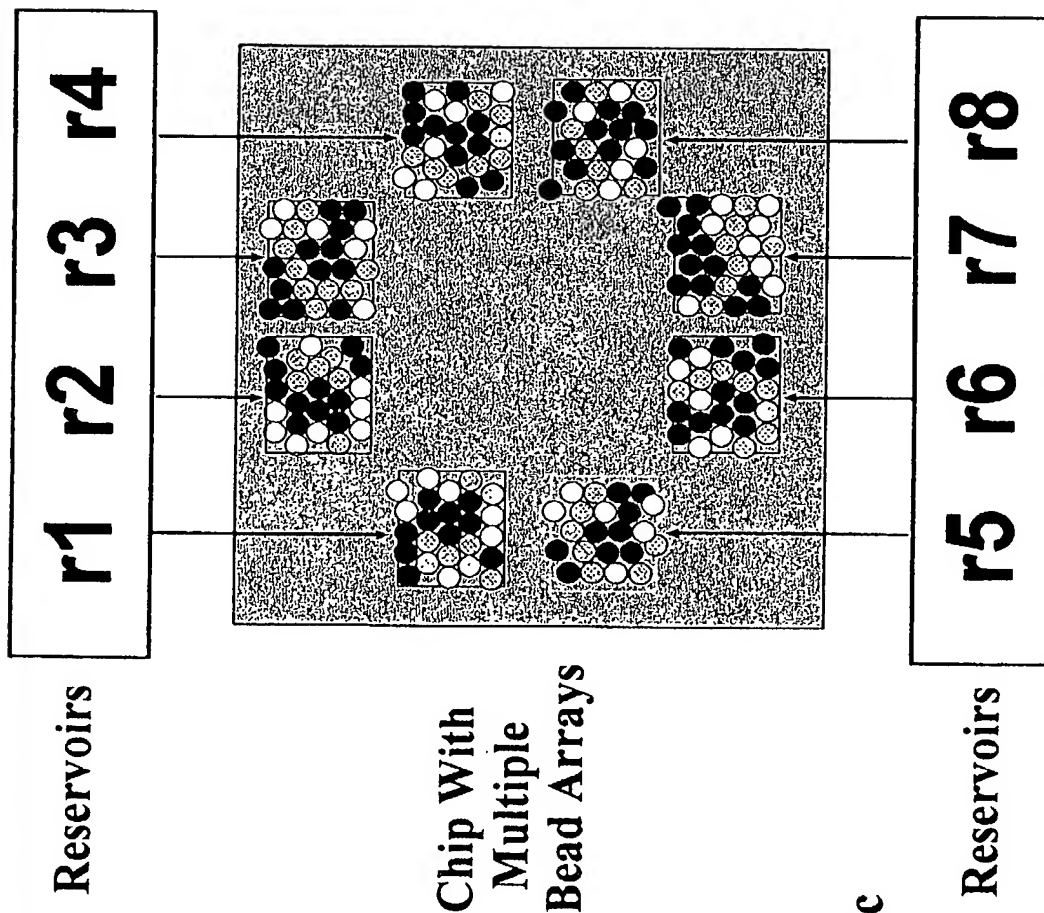


Figure 25c

SEQUENTIAL ASSEMBLY: "BANDING"

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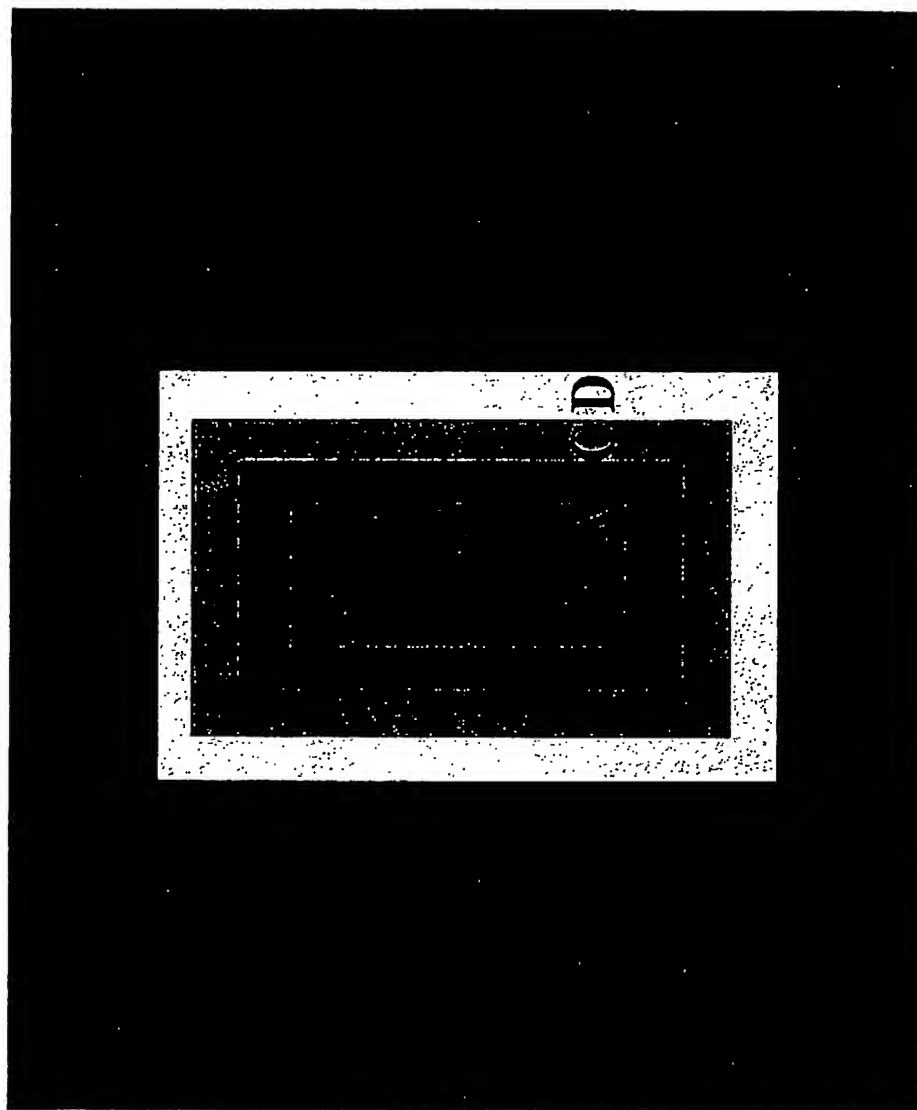


Figure 26a

SEQUENTIAL ASSEMBLY: "BANDING"

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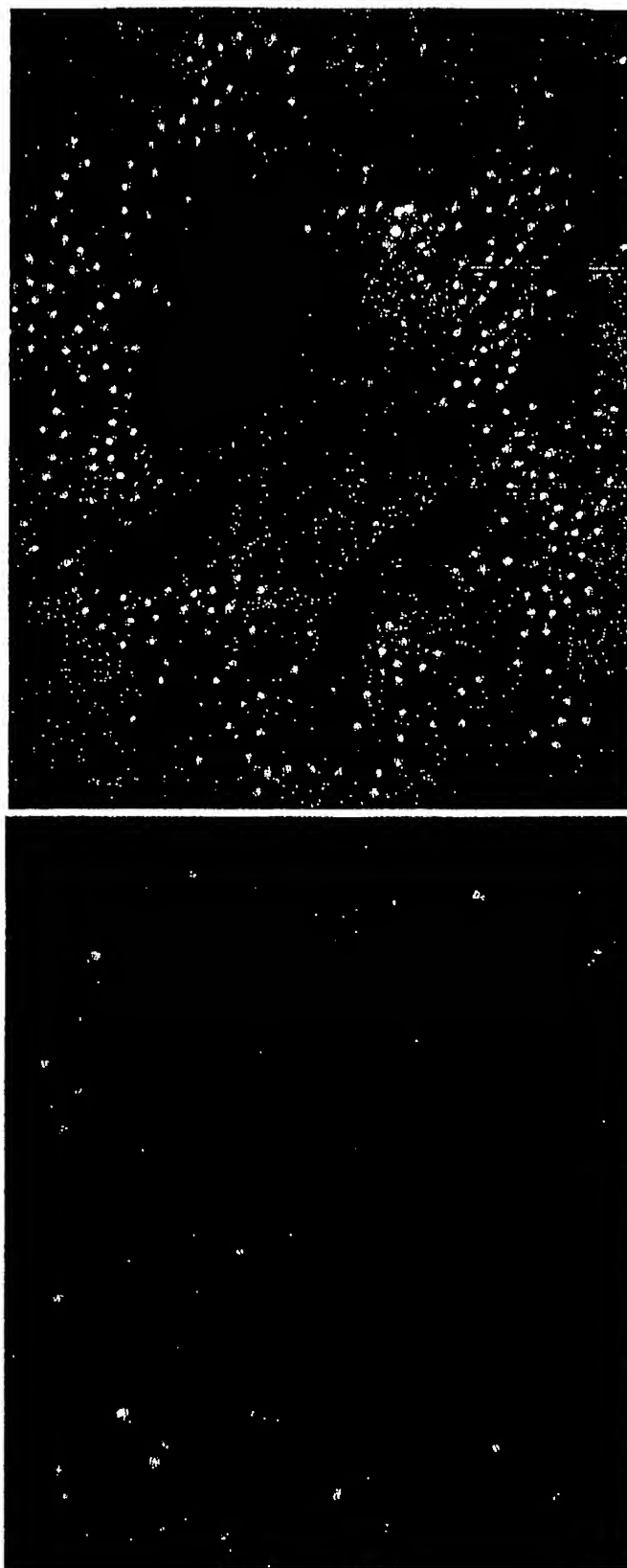
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Mixture of Two Particle Types

Brightfield Image

Darkfield Image



2.8 μm 5.5 μm

2.8 μm 5.5 μm

Figure 26b

LCD PARSE

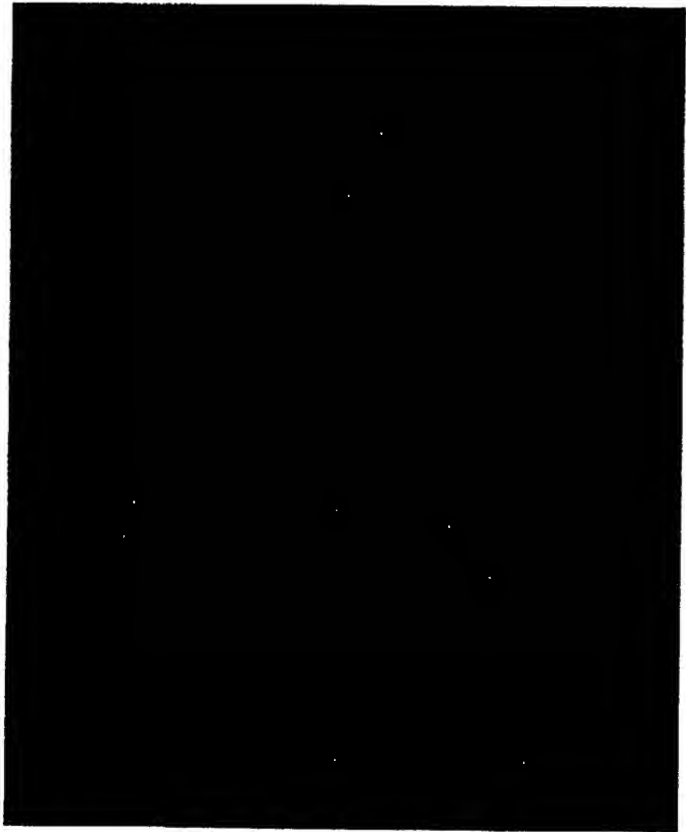


Figure 27

ARRAY OF RANDOM SUBARRAYS

A UNIQUE TWO-DIMENSIONAL BAR CODE

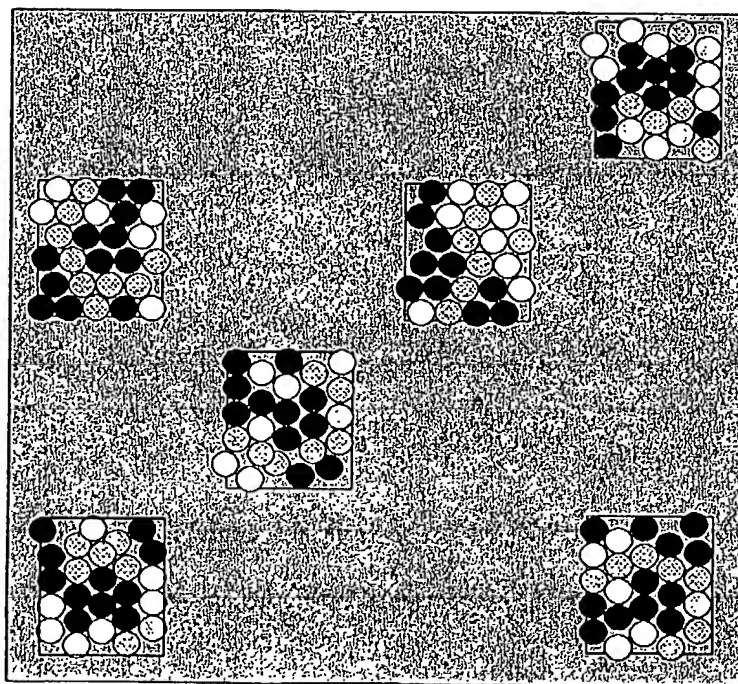


Figure 28

LIGHT-INDUCED FLUID FLOW

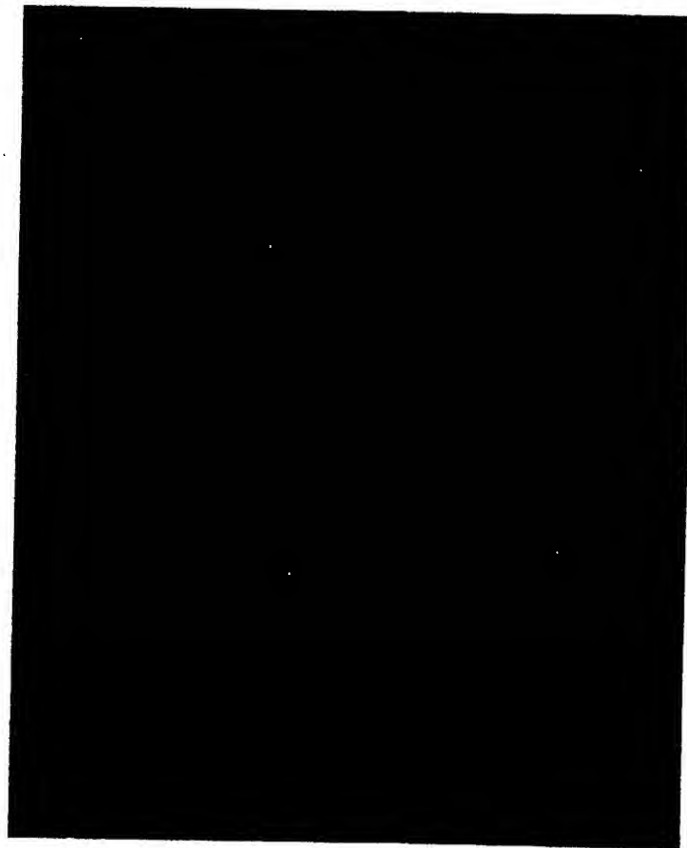


Figure 29